TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/246,129B

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2 <110> APPLICANT: Yu, Guo-Liang

3 Ni, Jian

4 Rosen, Craig A.

6 <120> TITLE OF INVENTION: Tumor Necrosis Factor Gamma

8 <130> FILE REFERENCE: PF141P4

10 <140> CURRENT APPLICATION NUMBER: 09/246,129B

11 <141> CURRENT FILING DATE: 1999-02-08

13 <150> PRIOR APPLICATION NUMBER: 60/074,047

14 <151> PRIOR FILING DATE: 1998-02-09

16 <150> PRIOR APPLICATION NUMBER: 09/131,237

17 <151> PRIOR FILING DATE: 1998-08-07

19 <150> PRIOR APPLICATION NUMBER: 09/005,020

20 <151> PRIOR FILING DATE: 1998-01-09

22 <150> PRIOR APPLICATION NUMBER: 08/461,246

23 <151> PRIOR FILING DATE: 1995-06-05

25 <150> PRIOR APPLICATION NUMBER: PCT/US94/12880

26 <151> PRIOR FILING DATE: 1994-11-07

28 <160> NUMBER OF SEQ ID NOS: 24

30 <170> SOFTWARE: PatentIn Ver. 2.0

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- >	182	naaa	atao	י ככי מאלי	aatta	accc	1a a	atac	rtago	. aca	taac	rtat	aano	ctac	ret a	actca	aggagg	2324 F MO	red
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- >	182	CCG	addc	ลัตล ส	anaat	tnct	-t a:	aacto	ıaaas	aaa	agag	ratt	acad	rtgag	ree e	cagar	negege	2384	
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Output Set: N:\CRF3\10112001\1246129B.raw

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Input Set : A:\09246129 SEQ LIST Sep 2001.txt
Output Set: N:\CRF3\10112001\1246129B.raw

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	<21				* **											
	<21				ц <sub>от</sub>	- c-1	niano	-								
320	\Z_I.	3/ OI	NGMN.	LOPL	110111											
328	110															
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329	Met	0> SI	EQUEI	NCE:	5 Gly				Arg		Gly	Arg	Leu	Gln		Arg
329 330	Met 1	O> SI Gly	EQUEI Ala	NCE: Leu	5 Gly 5	Leu	Glu	Gly		10					15	
329 330 332	Met 1	O> SI Gly	EQUEI Ala	NCE: Leu Leu	5 Gly 5	Leu	Glu	Gly	Gly	10				Val	15	
329 330 332 333	Met 1 Gly	0> SI Gly Ser	EQUEI Ala Leu	NCE: Leu Leu 20	5 Gly 5 Leu	Leu Ala	Glu Val	Gly Ala	Gly 25	10 Ala	Thr	Ser	Leu	Val	15 Thr	Leu
329 330 332 333 335	Met 1 Gly	0> SI Gly Ser	EQUEI Ala Leu Ala	NCE: Leu Leu 20	5 Gly 5 Leu	Leu Ala	Glu Val	Gly Ala Val	Gly	10 Ala	Thr	Ser	Leu Ala	Val	15 Thr	Leu
329 330 332 333 335 336	Met 1 Gly Leu	0> SI Gly Ser Leu	EQUEI Ala Leu Ala 35	NCE: Leu Leu 20 Val	5 Gly 5 Leu Pro	Leu Ala Ile	Glu Val Thr	Gly Ala Val 40	Gly 25 Leu	10 Ala Ala	Thr Val	Ser Leu	Leu Ala 45	Val 30 Leu	15 Thr Val	Leu Pro
329 330 332 333 335 336 338	Met 1 Gly Leu	0> SI Gly Ser Leu Asp	EQUEI Ala Leu Ala 35	NCE: Leu Leu 20 Val	5 Gly 5 Leu Pro	Leu Ala Ile	Glu Val Thr Val	Gly Ala Val 40	Gly 25	10 Ala Ala	Thr Val	Ser Leu Asp	Leu Ala 45	Val 30 Leu	15 Thr Val	Leu Pro
329 330 332 333 335 336 338 339	Met 1 Gly Leu Gln	O> SI Gly Ser Leu Asp 50	EQUEI Ala Leu Ala 35 Gln	Leu Leu 20 Val	5 Gly S Leu Pro	Leu Ala Ile Leu	Glu Val Thr Val 55	Gly Ala Val 40 Thr	Gly 25 Leu Glu	10 Ala Ala Thr	Thr Val Ala	Ser Leu Asp 60	Leu Ala 45 Pro	Val 30 Leu Gly	15 Thr Val Ala	Leu Pro Gln
329 330 332 333 335 336 338 339 341	Met 1 Gly Leu Gln Ala	O> SI Gly Ser Leu Asp 50	EQUEI Ala Leu Ala 35 Gln	Leu Leu 20 Val	5 Gly S Leu Pro	Leu Ala Ile Leu Gly	Glu Val Thr Val 55	Gly Ala Val 40 Thr	Gly 25 Leu	10 Ala Ala Thr	Thr Val Ala Pro	Ser Leu Asp 60	Leu Ala 45 Pro	Val 30 Leu Gly	15 Thr Val Ala	Leu Pro Gln Glu
329 330 332 333 335 336 338 339 341 342	Met 1 Gly Leu Gln Ala 65	O> SI Gly Ser Leu Asp 50 Gln	EQUEI Ala Leu Ala 35 Gln	Leu Leu 20 Val Gly	5 Gly 5 Leu Pro Gly Leu	Leu Ala Ile Leu Gly 70	Glu Val Thr Val 55 Phe	Gly Ala Val 40 Thr	Gly 25 Leu Glu Lys	10 Ala Ala Thr	Thr Val Ala Pro 75	Ser Leu Asp 60 Glu	Leu Ala 45 Pro Glu	Val 30 Leu Gly	15 Thr Val Ala Pro	Leu Pro Gln Glu 80
329 330 332 333 335 336 338 339 341 342 344	Met 1 Gly Leu Gln Ala 65	O> SI Gly Ser Leu Asp 50 Gln	EQUEI Ala Leu Ala 35 Gln	Leu Leu 20 Val Gly	5 Gly S Leu Pro Gly Leu Pro	Leu Ala Ile Leu Gly 70	Glu Val Thr Val 55 Phe	Gly Ala Val 40 Thr	Gly 25 Leu Glu	10 Ala Ala Thr Leu	Thr Val Ala Pro 75	Ser Leu Asp 60 Glu	Leu Ala 45 Pro Glu	Val 30 Leu Gly	15 Thr Val Ala Pro	Leu Pro Gln Glu 80
329 330 332 333 335 336 338 341 342 344 345	Met 1 Gly Leu Gln Ala 65 Thr	O> SI Gly Ser Leu Asp 50 Gln	EQUEI Ala Leu Ala 35 Gln Gln	Leu Leu 20 Val Gly Gly ser	5 Gly 5 Leu Pro Gly Leu Pro 85	Leu Ala Ile Leu Gly 70 Gly	Glu Val Thr Val 55 Phe Leu	Gly Ala Val 40 Thr Gln	Gly 25 Leu Glu Lys Ala	10 Ala Ala Thr Leu Ala 90	Thr Val Ala Pro 75 His	Ser Leu Asp 60 Glu Leu	Leu Ala 45 Pro Glu Ile	Val 30 Leu Gly Glu	15 Thr Val Ala Pro Ala 95	Leu Pro Gln Glu 80 Pro
329 330 332 333 335 336 338 341 342 344 345 347	Met 1 Gly Leu Gln Ala 65 Thr	O> SI Gly Ser Leu Asp 50 Gln Asp	EQUEI Ala Leu Ala 35 Gln Gln Leu	Leu 20 Val Gly Ser Gln	5 Gly 5 Leu Pro Gly Leu Pro 85 Gly	Leu Ala Ile Leu Gly 70 Gly Leu	Glu Val Thr Val 55 Phe Leu Gly	Gly Ala Val 40 Thr Gln Pro	Gly 25 Leu Glu Lys Ala Glu	10 Ala Ala Thr Leu Ala 90 Thr	Thr Val Ala Pro 75 His Thr	Ser Leu Asp 60 Glu Leu Lys	Leu Ala 45 Pro Glu Ile Glu	Val 30 Leu Gly Glu Gly Gln	15 Thr Val Ala Pro Ala 95 Ala	Leu Pro Gln Glu 80 Pro
329 330 332 333 335 336 338 341 342 344 345 347 348	Met 1 Gly Leu Gln Ala 65 Thr	O> SI Gly Ser Leu Asp 50 Gln Asp Lys	EQUEI Ala Leu Ala 35 Gln Gln Leu	Leu 20 Val Gly Ser Gln 100	5 Gly 5 Leu Pro Gly Leu Pro 85 Gly	Leu Ala Ile Leu Gly 70 Gly Leu	Glu Val Thr Val 55 Phe Leu Gly	Gly Ala Val 40 Thr Gln Pro	Gly 25 Leu Glu Lys Ala Glu 105	10 Ala Ala Thr Leu Ala 90 Thr	Thr Val Ala Pro 75 His	Ser Leu Asp 60 Glu Leu Lys	Leu Ala 45 Pro Glu Ile Glu	Val 30 Leu Gly Glu Gly Gln 110	15 Thr Val Ala Pro Ala 95 Ala	Leu Pro Gln Glu 80 Pro
329 330 332 333 335 336 338 341 342 344 345 347 348 350	Met 1 Gly Leu Gln Ala 65 Thr Leu Leu	O> SI Gly Ser Leu Asp 50 Gln Asp Lys	EQUENTAL ALA SE	Leu 20 Val Gly Ser Gln 100	5 Gly 5 Leu Pro Gly Leu Pro 85 Gly	Leu Ala Ile Leu Gly 70 Gly Leu	Glu Val Thr Val 55 Phe Leu Gly	Gly Ala Val 40 Thr Gln Pro Trp Ser	Gly 25 Leu Glu Lys Ala Glu 105	10 Ala Ala Thr Leu Ala 90 Thr	Thr Val Ala Pro 75 His	Ser Leu Asp 60 Glu Leu Lys	Leu Ala 45 Pro Glu Ile Glu Leu	Val 30 Leu Gly Glu Gly Gln 110	15 Thr Val Ala Pro Ala 95 Ala	Leu Pro Gln Glu 80 Pro
329 330 332 333 335 336 338 341 342 344 345 347 348 350 351	Met 1 Gly Leu Gln Ala 65 Thr Leu	O> SI Gly Ser Leu Asp 50 Gln Asp Lys	EQUENTAL ALA STATE OF THE STATE	Leu 20 Val Gly Ser Gln 100 Gly	Gly Fro Gly Leu Pro Gly Leu Pro 85 Gly Thr	Leu Ala Ile Leu Gly 70 Gly Leu Gln	Glu Val Thr Val 55 Phe Leu Gly Phe	Gly Ala Val 40 Thr Gln Pro Trp Ser 120	Gly 25 Leu Glu Lys Ala Glu 105 Asp	10 Ala Ala Thr Leu Ala 90 Thr	Thr Val Ala Pro 75 His Thr Glu	Ser Leu Asp 60 Glu Leu Lys Gly	Leu Ala 45 Pro Glu Ile Glu Leu 125	Val 30 Leu Gly Glu Gly Gln 110 Ala	15 Thr Val Ala Pro Ala 95 Ala Leu	Leu Pro Gln Glu 80 Pro Phe
329 330 332 333 335 336 338 341 342 344 345 347 348 350 351 353	Met 1 Gly Leu Gln Ala 65 Thr Leu Leu Gln	O> SI Gly Ser Leu Asp 50 Gln Asp Lys Thr	EQUENTAL ALA STATE OF THE STATE	Leu 20 Val Gly Ser Gln 100 Gly	Gly Fro Gly Leu Pro Gly Leu Pro 85 Gly Thr	Leu Ala Ile Leu Gly 70 Gly Leu Gln	Glu Val Thr Val 55 Phe Leu Gly Phe Leu	Gly Ala Val 40 Thr Gln Pro Trp Ser 120	Gly 25 Leu Glu Lys Ala Glu 105 Asp	10 Ala Ala Thr Leu Ala 90 Thr	Thr Val Ala Pro 75 His Thr Glu	Ser Leu Asp 60 Glu Leu Lys Gly Gly	Leu Ala 45 Pro Glu Ile Glu Leu 125	Val 30 Leu Gly Glu Gly Gln 110 Ala	15 Thr Val Ala Pro Ala 95 Ala Leu	Leu Pro Gln Glu 80 Pro
329 330 332 333 335 336 338 341 342 344 345 347 348 350 351 353 354	Met 1 Gly Leu Gln Ala 65 Thr Leu Leu Gln	O> SI Gly Ser Leu Asp 50 Gln Asp Lys Thr	EQUENTAL ALA SE GIN GIN Leu Gly Ser 115 Gly	Leu 20 Val Gly Ser Gln 100 Gly Leu	Gly Fro Gly Leu Pro 85 Gly Thr	Leu Ala Ile Leu Gly 70 Gly Leu Gln Tyr	Glu Val Thr Val 55 Phe Leu Gly Phe Leu 135	Gly Ala Val 40 Thr Gln Pro Trp Ser 120 Tyr	Gly 25 Leu Glu Lys Ala Glu 105 Asp	10 Ala Ala Thr Leu Ala 90 Thr Ala Leu	Thr Val Ala Pro 75 His Thr Glu Val	Ser Leu Asp 60 Glu Leu Lys Gly Gly 140	Leu Ala 45 Pro Glu Ile Glu Leu 125 Tyr	Val 30 Leu Gly Glu Gly Gln 110 Ala	15 Thr Val Ala Pro Ala 95 Ala Leu Gly	Leu Pro Gln Glu 80 Pro Phe Pro Arg
329 330 332 333 335 336 338 339 341 342 344 345 350 351 353 354 356	Met 1 Gly Leu Gln Ala 65 Thr Leu Gln Ala	O> SI Gly Ser Leu Asp 50 Gln Asp Lys Thr	EQUENTAL ALA SE GIN GIN Leu Gly Ser 115 Gly	Leu 20 Val Gly Ser Gln 100 Gly Leu	Gly Fro Gly Leu Pro 85 Gly Thr	Leu Ala Ile Leu Gly 70 Gly Leu Gln Tyr	Glu Val Thr Val 55 Phe Leu Gly Phe Leu 135	Gly Ala Val 40 Thr Gln Pro Trp Ser 120 Tyr	Gly 25 Leu Glu Lys Ala Glu 105 Asp	10 Ala Ala Thr Leu Ala 90 Thr Ala Leu	Thr Val Ala Pro 75 His Thr Glu Val Arg	Ser Leu Asp 60 Glu Leu Lys Gly Gly 140	Leu Ala 45 Pro Glu Ile Glu Leu 125 Tyr	Val 30 Leu Gly Glu Gly Gln 110 Ala	15 Thr Val Ala Pro Ala 95 Ala Leu Gly	Leu Pro Gln Glu 80 Pro Phe Arg
329 330 332 333 335 336 338 339 341 342 344 345 350 351 353 354 356 357	Met 1 Gly Leu Gln Ala 65 Thr Leu Gln Ala 145	O> SI Gly Ser Leu Asp 50 Gln Asp Lys Thr Asp 130 Pro	EQUENTAL ALA SE	Leu 20 Val Gly Ser Gln 100 Gly Leu Gly	SGly SLeu Pro Gly Leu Pro 85 Gly Thr Tyr	Leu Ala Ile Leu Gly 70 Gly Leu Gln Tyr Gly 150	Glu Val Thr Val 55 Phe Leu Gly Phe Leu 135 Asp	Gly Ala Val 40 Thr Gln Pro Trp Ser 120 Tyr Pro	Gly 25 Leu Glu Lys Ala Glu 105 Asp Cys Gln	10 Ala Ala Thr Leu Ala 90 Thr Ala Leu Gly	Thr Val Ala Pro 75 His Thr Glu Val Arg 155	Ser Leu Asp 60 Glu Leu Lys Gly Gly 140 Ser	Leu Ala 45 Pro Glu Ile Glu Leu 125 Tyr	Val 30 Leu Gly Glu Gly Gln 110 Ala Arg	15 Thr Val Ala Pro Ala 95 Ala Leu Gly Leu	Leu Pro Gln Glu 80 Pro Phe Arg Arg 160
329 330 332 333 335 336 338 339 341 342 344 345 350 351 353 354 356 357 359	Met 1 Gly Leu Gln Ala 65 Thr Leu Gln Ala 145 Ser	O> SI Gly Ser Leu Asp 50 Gln Asp Lys Thr Asp 130 Pro	EQUENTAL ALA SE	Leu 20 Val Gly Ser Gln 100 Gly Leu Gly	SGly SLeu Pro Gly Leu Pro 85 Gly Thr Tyr Gly Arg	Leu Ala Ile Leu Gly 70 Gly Leu Gln Tyr Gly 150	Glu Val Thr Val 55 Phe Leu Gly Phe Leu 135 Asp	Gly Ala Val 40 Thr Gln Pro Trp Ser 120 Tyr Pro	Gly 25 Leu Glu Lys Ala Glu 105 Asp	10 Ala Ala Thr Leu Ala 90 Thr Ala Leu Gly	Thr Val Ala Pro 75 His Thr Glu Val Arg 155	Ser Leu Asp 60 Glu Leu Lys Gly Gly 140 Ser	Leu Ala 45 Pro Glu Ile Glu Leu 125 Tyr	Val 30 Leu Gly Glu Gly Gln 110 Ala Arg	Thr Val Ala Pro Ala 95 Ala Leu Gly Leu Pro	Leu Pro Gln Glu 80 Pro Phe Arg Arg 160
329 330 332 333 335 336 338 339 341 342 344 345 350 351 353 354 356 357 359 360	Met 1 Gly Leu Gln Ala 65 Thr Leu Gln Ala 145 Ser	O> SI Gly Ser Leu Asp 50 Gln Asp Lys Thr Asp 130 Pro	EQUENTAL ALA ALA SECTION GIN Leu SIY Pro Leu	Leu 20 Val Gly Gly Ser Gln 100 Gly Leu Gly Tyr	SGly SLeu Pro Sly Leu Pro Sly Thr Tyr Gly Arg 165	Leu Ala Ile Leu Gly 70 Gly Leu Gln Tyr Gly 150 Ala	Glu Val Thr Val 55 Phe Leu Gly Phe Leu 135 Asp	Gly Ala Val 40 Thr Gln Pro Trp Ser 120 Tyr Pro Gly	Gly 25 Leu Glu Lys Ala Glu 105 Asp Cys Gln	10 Ala Ala Thr Leu Ala 90 Thr Ala Leu Gly Tyr 170	Thr Val Ala Pro 75 His Thr Glu Val Arg 155 Gly	Leu Asp 60 Glu Leu Lys Gly 140 Ser	Leu Ala 45 Pro Glu Ile Glu Leu 125 Tyr Val Gly	Val 30 Leu Gly Glu Gly Gln 110 Ala Arg Thr	15 Thr Val Ala Pro Ala 95 Ala Leu Gly Leu Pro 175	Leu Pro Gln Glu 80 Pro Phe Arg Arg 160 Glu

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 10/11/2001

PATENT APPLICATION: US/09/246,129B

TIME: 14:30:51

Input Set : A:\09246129 SEQ LIST Sep 2001.txt
Output Set: N:\CRF3\10112001\1246129B.raw

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L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L\!:\!532 M\!:\!341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:534\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:701\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
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L:1307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
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L:1385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:1387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/246,129B

DATE: 10/11/2001 TIME: 14:30:51

Input Set : A:\09246129 SEQ LIST Sep 2001.txt
Output Set: N:\CRF3\10112001\1246129B.raw

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